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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER 06334/HG

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/579,943

INTERNATIONAL APPLICATION NO. PCT/JP2004/017824

INTERNATIONAL FILING DATE
24 NOVEMBER 2004

PRIORITY DATE CLAIMED 27 NOV. 2003; 11 NOV. 2004

TITLE OF INVENTION
METHOD AND APPARATUS FOR DETECTING CRATER END OF CONTINUOUSLY CAST PRODUCT, AND METHOD FOR PRODUCING CONTINUOUSLY CAST PRODUCT APPLICANT(S) FOR DO/EO/US Yukinori IIZUKA; Jun KUBOTA; and Koichi TSUTSUMI Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the international Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. l Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. LXI An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the International application under 35 U.S.C. 154(d)(4). Express Mail Label No. EV 902 108 044 US 20. Other items or information: Date of Deposit: August 4, 2006 Thereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee' service under 37 CFR 1.10 on the date indicated above with sufficient postage, and is addressed to the Mail Stop PCT,

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Surcharge of \$13 claimed priority of	30.00 for furnishing late (37 CFR 1.49	\$.00									
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Total claims		- 20 =		\$ 50	\$.00						
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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the international Application to pending status.											
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/579,943

Applicant : Yukinori IIZUKA et al

Filed : May 22, 2006

For : METHOD AND APPARATUS FOR

DETECTING CRATER END OF

CONTINUOUSLY CASE PRODUCT...

Docket No. : 06334/HG

Customer No.: 01933

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SIR:

A copy of each of the publications identified in the enclosed Form PTO/SB/08A is enclosed herewith. The first three identified publications are also identified in the enclosed English language International Search Report in the International Application PCT/JP2004/017824. The remaining six publications are identified in the present specification (see pages 2-5).

It is requested that said publications be considered and that a copy of the enclosed Form PTO/SB/08A with the Examiner's initials in the left column be returned to the undersigned attorney.

Respectfully submitted,

G**O**ODMAN

Reg. No. 17,081

Frishauf, Holtz, Goodman & Chick, P.C.

220 Fifth Ave., 16th floor New York, NY 10001-7708 Telephone: (212) 319-4900 Facsimile: (212) 319-5101

HG/lpv

Encs.: Form PTO/SB/08A and publications identified thereon;

International Search Report

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Lori Valdes

Lori valdes

In the event that this Paper is late filed, and the necessary petition for extension of time is not filed concurrently herewith, please consider this as a Petition for the requisite extension of time, and to the extent not tendered by credit card payment, authorization to charge the extension fee, or any other fee required in connection with this Paper to Account No. 06-1378.

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Substitute for Form 1449A/PTO					Application Number			10/579,943						
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Filing Date			May 22, 2006						
					First Named Inventor			Yukinori IIZUKA et al						
					Group Art Unit									
					Examiner Name									
Sheet 1 of 1					Attorney Docket Number			06334/HG						
U.S. PATENT DOCUMENTS														
Exam. Inits*	Cite No ¹	Do	Document Number					Kind Code ²	Name of Patentee or Applicant			Publication Date MM-DD-YYYY	Relevant Portion	
FOREIGN PATENT DOCUMENTS														
Exam Inits	Cite No¹	Of	ffc, D	c' Document Number4				Kind Code⁵	Name of Patentee or Applicant		Publication Date MM-DD-YYYY	Relevant Portion	T ⁶	
	1	Ji	P 6	62-148850				A	KAWASAKI STE	EEL		07-02-1987		*1
	2	J	P 6	63-313643				A	KAWASAKI STEEL		12-21-1988		*1	
	3	J	P O	01-127161				A	KAWASAKI STEEL		05-19-1989		*1	
	4	J	P 5	55-158506				A	KAWASAKI STEEL			12-10-1980		*1
	5	J	P 0	05-123842				A	KOBE STEEL LTD			05-21-1993		*2
	6	J	P 5	57-032863				A	NIPPON STEEL CORP		02-22-1982		*1	
	7	J	P 0	02-055909				A	NIPPON STEEL CORP			02-26-1990		*1
	8	J	P 6	63-313643				A	KAWASAKI STEEL		12-21-1988		*1	
	9	J	P 2	2002-014083				A	NKK CORP			01-18-2002		*1
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Examiner Signature							Date Considered	i						

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Unique citation designation number. 'See kinds of U.S. Patent Documents.' Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.' Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 'Place a check here if English translation is attached.